

Mohammad Dhimas Afrizal

2211104023

SE06-01

## Tugas 8 Rest API ( Pemrograman Perangkat Bergerak )

API dummy mocki.io

```
[  
  {  
    "id": 1,  
    "name": "Mohammad Dhimas Afrizal",  
    "email": "mdhimas25@gmail.com"  
  },  
  {  
    "id": 2,  
    "name": "Dewi Atika Muthi",  
    "email": "dewiatika@gmail.com"  
  }  
]
```

main.dart

```
import 'package:flutter/material.dart';  
import 'screens/home_screen.dart';  
  
void main() {  
  runApp(MyApp());  
}  
  
class MyApp extends StatelessWidget {  
  @override  
  Widget build(BuildContext context) {  
    return MaterialApp(  
      title: 'Flutter Demo',  
      theme: ThemeData(  
        primaryColor: Colors.pink,  
      ),  
      home: HomeScreen(),  
    );  
  }  
}
```

```

        title: 'Rest API Demo',
        theme: ThemeData(primarySwatch: Colors.blue),
        home: HomeScreen(),
    );
}
}

```

user\_model.dart

```

class User {
    final int id;
    final String name;
    final String email;

    User({required this.id, required this.name, required this.email});

    factory User.fromJson(Map<String, dynamic> json) {
        return User(
            id: json['id'],
            name: json['name'],
            email: json['email'],
        );
    }
}

```

api\_services.dart

```

import 'dart:convert';
import 'package:http/http.dart' as http;
import '../models/user_model.dart';

class ApiService {
    static const String url = 'https://mocki.io/v1/30502cd8-838d-4030-8aa8-7fa993451bb5';

    static Future<List<User>> fetchUsers() async {
        final response = await http.get(Uri.parse(url));
        if (response.statusCode == 200) {
            List jsonResponse = json.decode(response.body);
            return jsonResponse.map((data) => User.fromJson(data)).toList();
        } else {
            throw Exception('Failed to load users');
        }
    }
}

```

```
}
```

home\_screen.dart

```
import 'package:flutter/material.dart';
import '../services/api_service.dart';
import '../models/user_model.dart';

class HomeScreen extends StatefulWidget {
  @override
  _HomeScreenState createState() => _HomeScreenState();
}

class _HomeScreenState extends State<HomeScreen> {
  late Future<List<User>> futureUsers;

  @override
  void initState() {
    super.initState();
    futureUsers = ApiService.fetchUsers();
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Users List'),
      ),
      body: FutureBuilder<List<User>>(
        future: futureUsers,
        builder: (context, snapshot) {
          if (snapshot.connectionState == ConnectionState.waiting) {
            return Center(child: CircularProgressIndicator());
          } else if (snapshot.hasError) {
            return Center(child: Text('Error: ${snapshot.error}'));
          } else if (!snapshot.hasData || snapshot.data!.isEmpty) {
            return Center(child: Text('No users found'));
          } else {
            return ListView.builder(
              itemCount: snapshot.data!.length,
              itemBuilder: (context, index) {
                final user = snapshot.data![index];
                return ListTile(
                  title: Text(user.name),
                  subtitle: Text(user.email),
                );
              }
            );
          }
        }
      )
    );
  }
}
```

```
    },  
  );  
}  
},  
,  
);  
);  
}  
}
```

pubspec.yaml

```
name: rest_api  
description: "A new Flutter project."  
# The following line prevents the package from being accidentally published to  
# pub.dev using `flutter pub publish`. This is preferred for private packages.  
publish_to: 'none' # Remove this line if you wish to publish to pub.dev  
  
version: 1.0.0+1  
  
environment:  
  sdk: ^3.5.4  
  
dependencies:  
  flutter:  
    sdk: flutter  
  http: ^1.2.2  
  
  cupertino_icons: ^1.0.8  
  
dev_dependencies:  
  flutter_test:  
    sdk: flutter  
  flutter_lints: ^4.0.0  
  
flutter:  
  uses-material-design: true
```